

YEREMENKO, A.S.

SOV/124-58-4-3972

Translation from: Referativny zhurnal, Mekhanika, 1958, Nr4, p43(USSR)

AUTHORS: Yeremenko, A.S., Saykovskiy, M.I.

TITLE: On the Evaluation of the Aerodynamic Properties Of Connecting Nozzles for Turbine-type Machinery (K voprosu otsenki aerodinamicheskogo kachestva patrubkov turbomashin)

PERIODICAL: Sb. tr. In-t teploenerg. AN Ukr SSR, 1956, Nr 13, pp 99-103

ABSTRACT: For the evaluation of the aerodynamic properties of various types of connecting nozzles for the turbine-type machinery, the authors suggest that in lieu of the hydraulic loss coefficients, the coefficient of resistance  $\zeta_r$  or loss coefficient  $\zeta_l$  be employed. These coefficients refer to the dynamic head at the inlet, which is calculated on the basis of the resultant velocities, viz.:

$$\zeta_r = 1 + \frac{2\lambda_2 - \chi_2}{n^2 \chi_1} - \frac{2\lambda_1}{n \chi_1}, \quad \zeta_l = 1 + \frac{2\lambda_2}{n^2 \chi_1} - \frac{2\lambda_1}{n \chi_1}$$

Card 1/2 where  $\lambda_{1,2}$  and  $\chi_{1,2}$  are coefficients characterizing the

SOV/124-58-4-3972

On the Evaluation of the Aerodynamic Properties (cont.)

nonuniformity of the momentum and the kinetic energy at the nozzle inlet and outlet, and  $n$  is a quantity characterizing the divergence of the nozzle towards the exit.

V. I. Vasilyev

1. Nozzles--Aerodynamic characteristics
2. Turbines--Equipment

Card 2/2



82184

10,2000

8/124/59/000/011/003/017  
A005/A001

Translation from: Referativnyy zhurnal, Mekhanika, 1959, No. 11, p. 69, # 13328

AUTHORS: Yeremenko, A.S., Fedosenko, A.F.

TITLE: Losses in Turbine Guide Cascades <sup>23</sup> |

PERIODICAL: Sb. tr. In-t teploenerg. AS UkrSSR, 1958, No. 14, pp. 167 - 173

TEXT: Results are presented from an experimental study of the dependence of the aerodynamic characteristics of immovable cascades formed by guiding vanes on the geometrical cascade parameters. Cascades were investigated, which were formed by vanes having a relative length  $l = 1.7, 1.27, 0.396$ , a relative pitch  $t = 0.804, 0.7, 0.6$  under the condition of stream incidence angles at the cascade entrance  $\alpha_2 = 60^\circ, 90^\circ, 120^\circ$ , and the rated stream exit angle  $\alpha_1 = 13^\circ$ . The known result is obtained that the cascade efficiency and the stream exit angle vary only insignificantly with the stream incidence angle, which is characteristic for a cascade having a high degree of reactivity and a thick inlet edge. For cascade with a relative length  $l = 1.7$  the maximum value of the cascade profile efficiency is obtained for  $t = 0.804$ ,  $\alpha_2 = 90^\circ$ , and amounts to 96%. The efficiency of the duct at the axial entrance amounts to 95% for a cascade with  $l = 1.7$ , and 94% for a cascade with  $l = 0.396$ . The end losses in short vanes

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X

Losses in Turbine Guide Cascades

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S/124/59/000/011/003/017  
A005/A001

amount to 1.5 - 3%, where the lower value relates to the stream incidence angle  $\alpha_2 = 60^\circ$ , the higher value to  $\alpha_2 = 120^\circ$ . In the cascade with the vane length  $l = 0.396$ , no plane flow exists, and the entire duct is filled up by a three-dimensional stream. In regions immediately adjacent to the front wall, a sharp decrease in efficiency occurs.

V.Kh. Abiants

Card 2/2

YEREMENKO, A.S.

82128  
S/124/60/000/002/003/012

26.5000

Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 2, p. 45, # 1889

AUTHORS: Yeremenko, O.S., Fedosenko, G.P.

TITLE: The Characteristics of Small-Height Turbine Cascades 23 1

PERIODICAL: Sb. prats' in-t teploenerg. AN UkrSSR, 1959, No.16, pp. 73 - 76  
(Ukr., Russ. summary)

TEXT: Results from experimental investigations of cascades of active turbine blade profiles are presented; the blades had a small relative height  $l = 0.815$  and  $0.208$ ; the tests were carried out at Mach number  $M = 0.2$  and Reynolds number  $R = 1.6 \times 10^5$ . The following results are obtained: 1) The flow around short blades is three-dimensional over the entire height of the blade. The efficiency distribution over the height of the blade is extremely non-uniform, which may be caused by the closure of secondary flows. The value of efficiency of such cascades is essentially lower than the efficiency of long blade cascades; for cascades with  $l = 0.208$ , the minimum efficiency is found in the middle of the blade, for cascades with  $l = 0.815$  at a distance of  $0.25$  of the height of the blade edge. 2) The optimum value of the stream incidence angle in cascades with very short blades shifts into the region of higher values in comparison with

Card 1/2

The Characteristics of Small-Height Turbine Cascades

82128  
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usual cascades. For example, the increase in stream incidence angle from  $19^\circ$  to  $40^\circ$  in a cascade with  $l = 0.208$  led to increase in cascade efficiency from 75% to 81%. 3) The optimum value of spacing in cascades with very short blades  $l < 0.3$  shifts into the region of lower values. For example, the increase in relative spacing  $t$  from 0.6 to 0.755 led to increasing efficiency of the cascade by 2% in a cascade with  $l = 0.208$ .

V.Kh. Abiants

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Card 2/2

VIROZUB, I.YE. [Virozub, I.O.]; GORBATYY, Yu.P. [Horbatyi, IU.P.];  
YEREMENKO, A.S. [Ieremenko, O.S.]

Determining the characteristics of turbine lattices. Zbir. prats:  
Inst. tepl. AN URSS no. 20:28-35 '60. (MIRA 14:4)  
(Turbines--Aerodynamics)



PHASE I BOOK EXPLOITATION

SOV/6059

Yeremenko, Aleksandra Semenovna, Ivan Yemel'yanovich Virozub, Yuriy Pavlovich Gorbatyy, Ivan Lazarevich Mironenko, and Anna Petrovna Fedosenko

Metody eksperimental'nogo issledovaniya aerodinamiki osevykh turbomashin  
(Methods for the Experimental Investigation of the Aerodynamics of Axial Turbomachines). Kiev, Izd-vo AN UkrSSR, 1961. 129 p. 2550 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut teploenergetiki.

Ed. of Publishing House: N. M. Titova; Tech. Ed.: T. R. Liberman.

PURPOSE: This book is intended for technical personnel of scientific research institutes and plant laboratories concerned with problems of aerodynamic investigations of the components of the turbine flow-passage area.

COVERAGE: The book deals with some problems of the method of aerodynamic investigation of parts of steam and gas turbines, measuring technique, and the

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Methods for the Experimental Investigation (Cont.)

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building of experimental models. It describes various types of instruments for measuring the parameters of two- and three-dimensional flows, methods of making and calibrating these instruments and also the manufacturing technology of model turbine blades. It describes also the most frequently used stands for investigating turbine blade cascades in stationary conditions and in motion. Candidate of Technical Sciences V. I. Pechuk assisted in the preparation of the first draft of the manuscript. The authors thank Ye. P. Dyban for his valuable remarks. There are 41 references: 39 Soviet, 1 English, and 1 French.

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Ch. I. Flow Modeling in a Turbine Stage	5
1. On the similitude of phenomena	5
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Card 2/ 2

YEREMENKO, A.S. [IYemenko, O.S.]; GORBATTY, Yu.P. [Horbati, IU.P.];  
VIROZUB, I.Ye. [Virozub, I.O.]

Radial equilibrium in the rotor of a turbine. Zbir. prats'  
Inst. tepl. AN URSR no.22:55-59 '61. (MIRA 16:6)

(Turbines)

YEREMENKO, A.S. [Ieremenko, O.S.]; VIROZUB, I.Ye. [Virozub, I.O.]

Radial equilibrium in a turbine stage, and the hypothesis of  
cylindrical sections. Dop. AN URSR no.3:379-383 '62.

(MIRA 15:5)

1. Institut teploenergetiki AN USSR. Predstavleno akademikom  
AN USSR I.T.Shvetsom [Shvets', I.T.]  
(Turbines) (Heat engineering)

VIROZUB, I.Ye. [Virozub, I.O.]; GORBATYY, Yu.P. [Horbati, IU.P.]; YEREMENKO, A.S.  
[Yeremenko, O.S.]; FEDOSENKO, A.P. [Fedosenko, H.P.]

Some results of the study of a circular lattice. Zbir. prats' Inst.  
tepl. AN URSR no.24:86-90 '62. (MIRA 16:3)  
(Turbines)

VIROZUB, I.Ye. [Virozub, I.O.]; GORBATYY, Yu.P. [Horbati, IU.P.]; YEREMENKO, A.S.  
[I.Eremenko, O.S.]; FEDOSENKO, A.P. [Fedosenko, H.P.]

Aerodynamic studies of a turbine stage with relatively short blades  
and variable modes of operation. Zbir. prats' Inst. tepl. AN URSS  
no.24:91-97 '62. (MIRA 16:3)  
(Turbines) (Fluid dynamics)

YEREMENKO, Aleksandra Semenovna, kand. tekhn. nauk; PECHUK, Vasilii  
Ivanovich, kand. tekhn. nauk; GAZHEMAN, Ivan Lazarevich, inzh.;  
SHEYNBOK, G.Yu., inzh., ved. red.; TOLCHINSKIY, Ye.M., red.;  
SOROKINA, T.M., tekhn. red.

[Stand for investigating aerodynamic processes in rotating  
models of turbine stages] Stend dlia issledovaniia aerodinami-  
cheskikh protsessov vo vrashchaiushchikhsia modeliakh stupeni  
turbin. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii,  
1958. 8 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi  
opyt. Tema 34. No.P58-48/5) (MIRA 16:3)  
(Air turbines--Testing)

VIROZUB, Ivan Yemel'yanovich; YERIMENKO, Aleksandra Semenovna;  
KHAZANET, S.M., ~~red. iad-va~~; PEREZOVSKAYA, D.M., tekhn.  
red.

[Jet engines] Reaktivnye dvigateli. Kiev, Izd-vo AN Ukr.SSE,  
1963. 80 p. (MIRZ 16:11)

(Jet propulsion)

(Space vehicles--Propulsion systems)



KOPYTOV, V.F., doktor tekhn. nauk, otv. red.; VESELOV, V.V.,  
kand. khim. nauk, red.; YERINOV, A.Ye., kand. tekhn. nauk,  
red.; TISHCHENKO, A.T., kand. tekhn. nauk, red.; DASHEVSKIY,  
L.N., kand. tekhn. nauk, red.; CHEGLIKOV, A.T., kand. tekhn.  
nauk, red. SIGAL, I.Ya., kand. tekhn. nauk, red.;  
SEMENKOVSKAYA, P.T., kand. tekhn. nauk, red.; YEREMENKO, A.S.,  
kand. tekhn. nauk, red.; DYBAN, Ye.P., kand. tekhn. nauk, red.;  
FEDOROV, V.I., kand. tekhn. nauk, red.; POL'SKIY, N.I., kand.  
fiz.-mat. nauk, red.

[Transactions of the Second Heat Engineering Conference of  
Young Research Workers] Trudy vtoroi teplotekhnicheskoi kon-  
ferentsii molodykh issledovatelei. Kiev, Izd-vo AN USSR, 1963.  
278 p. (MIRA 17:6)

1. Teplotekhnicheskaya konferentsiya molodykh issledovateley,  
2, 1963. 2. Chlen-korrespondent AN Ukr.SSR (for Kopytov).

APPROVED FOR RELEASE: 09/01/2001  
ACCESSION NUMBER: AP4045653

8/0133/64/000/009/0795/0797

Author: A. A. Kuritskiy, M. A. ...  
Institution: ...

TITLE: Technology of horizontal continuous casting of steel

SOURCE: Steel, no. 9, 1964, 795-797

TOPIC TAGS: horizontal continuous steel casting, continuous steel casting, continuous stainless steel casting, heat resistant steel casting, heat resistant alloy casting, cast consumable electrode

ABSTRACT: A horizontal continuous casting unit has been in operation ... through a refractory conduit into a horizontal ... which moves forwards and backwards with the receiver and conduit. Seventy-three heats of structural carbon steel (15-35), structural alloy steel (20KhNA, 20Kh2NA), stainless steel (1Kh18N9, and 1Kh18N9T), and heat-resistant steel (El-94), and heat-

Card 1/2



YEREMENKO, A.S.

Some words about testers and avometers. Izv. tekhn. no.5:  
59-60 My '65. (MIRA 18:8)

L 02201-67 EWT(d)/ENT(m)/EWP(w)/EWP(v)/EWP(j)/T/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(l)  
 ACC NR: AP6030450 (4) SOURCE CODE: UR/0193/66/000/008/0023/0024  
 IJP(c) JD/WW/NB/EM/DJ/RM

AUTHOR: Kan'kovskaya, Ye. N.; Artyukhin, G. V.; Yeremenko, A. S.

ORG: none

TITLE: Increasing the corrosion resistance of machine parts

SOURCE: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 8, 1966, 23-24

TOPIC TAGS: corrosion resistance, machine building, machine part, check valve, nozzle, teflon

ABSTRACT: The Plastics Laboratory of the Volgograd Scientific Research Institute of Machine-Building Technology in conjunction with the Volgograd Hydrolysis Plant has increased the corrosion resistance of hydrolysis equipment by substituting metal parts with teflon. Bronze and pig iron machine parts exposed to sulfuric acid concentrations from 0.5 to 0.5% at temperatures from 180 to 200°C and at pressures from 15—20 atm were replaced by teflon parts. Teflon nozzles were installed in 8 hydraulic units in the Volgograd Hydrolysis Plant. These nozzles are similar in design to the bronze, except for strengthening of the joint in the teflon nozzle flange. Also, pig iron check valves which operate at temperatures of 18—35°C in sulfuric

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UDC: 678.5.06.004.6

L 02201-67

ACC NR: AP6030450

acid concentrations of 74—85% were replaced by teflon valves.<sup>11</sup> Teflon check valves and nozzles are easy to manufacture, have higher resistance to aggressive medium, and have completely impermeable linings. Teflon parts can last 20 times longer than metal ones, as well as save considerable manufacturing costs. Orig. art. has; 1 figure. 2

SUB CODE: 11, 20/ SUBM DATE: none/

Card 2/2 LC

SLADKOSHEYEV, V.T.; SHATAGIN, O.A.; KURITSKIY, M.A.; YAKUNIN, I.A.; YEREMENKO,  
A.S.

Technology of horizontal continuous pouring of steel. Stal' 24 no.9:  
795-797 S '64. (MIRA 17:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut metallov.

CA YEREMENKO, A.T.

Experiments on the elimination of sulfur by the addition of specular cast iron. A. T. Yermenko. *Lutskoe Delo* 9, No. 3, 41-2 (1938); *Chem. Zentr.* 1938, II, 3148. The addition of 30 kg. of specular Fe (with 14% Mn content) to 800 kg. pig Fe reduced the S content in the pig Fe to 0.1%. The S was combined as MnS and went into the slag. The S content of the slag was increased thereby almost sevenfold. When 50 kg. of specular Fe was used to an 800-kg. charge, an increase in the S content of the pig Fe was observed. This was due to an increase in the viscosity of the molten metal with the resulting formation of centers of crystal. by the MnS formed, so that the latter could not go over into the slag. M. G. Moore

ASA-55A METALLURGICAL LITERATURE CLASSIFICATION



YEREMENKO, A. T.

YEREMENKO, A. T. -- "Investigation of Certain Problems Connected with the Production of Alloyed and Unalloyed Cast Iron with Spherical Graphite." Min Higher Education USSR, Ural Polytechnical Institute imeni S. M. Kirov, Sverdlovsk, 1956. (Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis' No 43, October 1956, Moscow

AYNBINDER, A.B.; YEREMENKO, A.T.; MEL'NIKOV, V.S.

Automatic equipment for vacuuming mold cavities for die casting.

Lit. proizv. no.8:7-8 kg '63.

(MIRA 16:10)

YEREMENKO, A. V.

"Data on the Study of the Dynamics of the Protein Fractions of The Blood During Severe Infections." Cand Med Sci, Central Inst for the Advanced Training of Physicians, Min Health USSR, Moscow, 1955. (KL, No 12, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)



YEREMENKO, A.V., kand.mod.nauk

Side effects following the treatment of typhus fever patients with  
antibiotics. Lech. infekts. bol'. no.4:144-163 '60. (MIRA 14:5)  
(TYPHUS FEVER) (ANTIBIOTICS)

YABLONSKAYA, V.A.; KOVREVA, T.S.; YEREMENKO, A.V.

Epidemiology of typhus. Report No. 1: Data on the serodiagnosis of  
typhus. Vop. virus. 5 no. 2:237-240 My-S '60. (MIRA 14:4)

1. Institut epidemiologii i mikrobiologii imeni N.F. Gamalei AMN  
SSSR, 2-ya Gorodskaya klinicheskaya bol'nitsa, imeni S.P. Botkina,  
Moskva.

(TYPHUS FEVER)

GAL'PERIN, E.A., doktor med.nauk; YEREMENKO, A.V., kand.med.nauk

Treatment of typhus fever with some antibiotics. Lech. infekts.  
bol'. no.3:31-48 '57. (MIRA 14:5)  
(TYPHUS FEVER) (ANTIBIOTICS)

.. YEREMENKO, A.V., kand.mod.nauk

Dynamics of blood protein fractions in infectious diseases (erysipelas,  
dysentery, typhus and typhoid fever). Lech. infekts. bol'. no.3:  
126-139 '57. (MIRA 14:5)  
(BLOOD PROTEINS) (COMMUNICABLE DISEASES)



GAL'PERIN, E.A.; YEREMENKO, A.V.

Treatment of typhus patients with a combination of ACTH or cortisone  
and oxytetracycline. Antibiotiki 5 no.2:105-110 Mr-Ap '60.  
(MIRA 14:5)

1. Klinika infektsionnykh bolezney (zav. - deystvitel'nyy chlen  
AMN prof. G.P.Rudnev) Tsentral'nogo instituta usovershenstvovaniya  
vrachev.

(TYPHUS FEVER)  
(ACTH)

(TERRAMYCIN)  
(CORTISONE)

YEREMENKO, B.A.; BARABANOVA, K.A.; SUSOROV, B.G.; FREPON, N.R.; SHAKIN, A.N., kand. tekhn. nauk, otv. red.; KOL'TSOV, I.I., tekhn. red.

[Measurement and control of hydrogen ion concentration (pH) in the products of sugar manufacture] Izmerenie i regulirovanie kontsentratsii vodorodnykh ionov (pH) v produktakh sakharnogo proizvodstva. Kiev, TSentr. nauchno-issl. in-t sakharnoi promyshl., 1959. 45 p. (MIRA 16:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti (for Shakin). (Hydrogen-ion concentration) (Sugar manufacture)

YEREMENKO, Boris Antonovich; BARABANOVA, Kseniya Aleksandrovna; SUSOROV,  
Boris Grigor'yevich; FREPCON, Nikolay Raymondovich; TSENZURA,  
Aleksandr Ivanovich; LOSOVA, H., red.; SERGIYENKO, L., red.;  
SHAFETA, S., tekhn.red.

[Automatic control of the processes of beet-sugar manufacture]  
Avtomatizatsiia protsessov sveklosakharnogo proizvodstva. Kiev.  
Gos.isd-vo tekhn.lit-ry USSR, 1960. 133 p. (MIRA 13:8)  
(Sugar manufacture) (Automatic control)

YEREMENKO, B.A.; TSENZURA, A.I.; BAZHAL, I.G.; SUSOROV, B.G.; SOLLOGUB,  
A.A.; BELIK, Yu.N.

Automation of evaporation sections. Sakh. prom. 35 no.11:39-45  
N '61. (MIRA 15:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy  
promyshlennosti (for Yermenko, TSenzura, Bazhal, Susorov).
2. Ust'-Labinskiy zavod (for Sollogub, Belik).  
(Sugar machinery) (Automation)

YEREMENKO, B.A.; TSENZURA, A.I.; BAZHAL, I.G.; SUSOROV, B.G.

Method of controlling water feed to the evaporation plant. Sakh.  
prom. 36 no.5:29-35 My '62. (MIRA 15:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharnoy  
promyshlennosti.

(Sugar manufacture—Equipment and supplies)  
(Automatic control)

YEREMENKO, B.A.; SAGAN\*, I.I.; TOBILEVICH, N.Yu.

Generalization of experimental data on the optimum level of  
a boiling liquid in pipes. Izv. vys. ucheb.zav.; pishch. tekhn.  
no.2:123-129 '63. (MIRA 16:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharney  
promyshlennosti i Kiyevskiy tekhnologicheskoy institut pish-  
chevoy promyshlennosti.

(Heat—Transmission)

(Fluid dynamics)

1.0002. Cylindrical viscometer - 100 ml, 100, 100, 100

1.0003. Density measurement, by viscosity (liquid, air, steam, gas)

1.0004. Density measurement, by viscosity (liquid, air, steam, gas)

1.0005. Density measurement, by viscosity (liquid, air, steam, gas)

1.0006. Density measurement

NO REF 3.4V: 000

1.0007. 000

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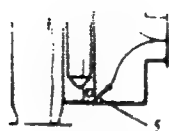


Fig. 1.

1- measuring chamber; 2- sensitive element; 3- registering circuit; 4- bypass vessel (pipe); 5- inlet ducts for the

Card

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BORKOVSKIY, M.A.; VOSTOKOV, A.I.; ZHVIRKO, I.S.; LEPESHKIN, I.P.;  
MEL'NIK, M.K.; MITROFANOV, V.P.; RODKEVICH, A.V.; SILIN,  
P.I. [deceased]; YAKUBOVSKIY, V.V.; YEREMENKO, B.A.,  
retsenzent; MAR'YANCHIK, V.L., retsenzent; MAKSIMOV, A.I.,  
retsenzent; PRITYKINA, L.A., red.

[Handbook for the sugar manufacturer] Spravochnik sakhar-  
nika. Moskva, Pishchevaia promyshlennost'. Pt.2. 1965.  
778 p. (MIRA 18:9)

*Yeremenko, B. A.*

USSR/Fluid Mechanics. Heat Transfer

Abs Jour: Ref Zhur+Mekhanika, No 6, 1957, 6840

Author : Tobilevich, N. Yu., Yeremenko, B. A.

Inst :

Title : The study of the characteristics of the heat transfer process during boiling in pipes.

Orig Pub: V sb. gidrodinamika i teploobmen pri kipenii v kotlakh vysokogo davleniya. [In the symposium: Hydrodynamics and Heat Exchange in boiling in high-pressure boilers.] M., AN SSSR, 1955, 186-205.

Abstract: Results of research conducted in 1949 on installation No 4 at the Kiev branch of the Central Scientific and Research Institute of the Sugar Industry (TsINS) are presented. This research dealt with heat transfer during the boiling in pipes of water (at atmospheric pressure) and sugar solution (at pressures of 0.4-1 kg/cm<sup>2</sup> and concentrations of 35 to 70 percent), with natural circulation. The experimental apparatus is schematically

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USSR/Fluid Mechanics. Heat Transfer

Abs Jour: Ref Zhur-Mekhanika, No 6, 1957, 6840

Abstract: illustrated and described in detail. The values of the heat flow in the experiments varied from 10,000 to 80,000 kcal/m<sup>2</sup>, and the circulation rate varied from 0 to 0.55 m/sec. Local values of the heat transfer coefficients were measured along the boiling-pipe at 14 intervals, each of which represented about 6 percent of the total length of the pipe (5 meters). A total of 50 runs (700 determinations of the heat transfer coefficient  $\alpha$ ) was made; the results of 14 of the experimental runs are presented in a table. General evaluations of the changes in the flow characteristics and heat exchange conditions along the pipe are given. Some of the short-comings of the experiments conducted in 1957 on installation No 1 (Tobilevich, N. Yu., Symposium of work of the Kiev branch of the Central Scientific and Research Institute of the Sugar Industry, 1946-1949) are pointed out; these short-comings resulted in a distortion of the nature of the function of the heat transfer coefficient along the pipe.

Card 2/4

YEREMENKO, B.A.; SUSOROV, B.G.; PONOMARENKO, A.P.; BOZHKO, P.I.

Organization and work of the section of control and measuring  
apparatus and automatic control. Sakh.prom. 31 no.8:50-52 Ag  
'57. (MLR. 10:8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharney  
promyshlennosti (for Yerenenko and Susorov). 2. Sakharney zavod  
imeni Stalina (for Ponomarenko and Bozhko).  
(automatic control) (Sugar industry--Equipment and supplies)

YEREMENKO, B. I.

USSR/Engineering - Diesel fuel

Card : 1/1

Authors : Somov, V. A., Candidate of Tech. Sciences, and Yermenko, B. I., Engineer

Title : The operation of the MDR 30/50 Diesel engine on heavy fuel

Periodical : Vest. Mash., 34, Ed. 6, 25 - 27, June 1954

Abstract : Operation of a Diesel engine using extra-heavy fuel is described. The engine was equipped with a system for cleaning the fuel with double filters and heating it. Experiments were conducted to determine the optimum regulation of the engine, when operating on DT-2 fuel, to establish its working parameters under load and to discover the best method of heating the fuel. Illustration; graphs.

Institution : ...

Submitted : ...

YEREMENKO, B.N.; NATANZON, Ya.V.

Kinetics and the mechanism of the oxidation of titanium carbide  
with an addition of chromium. Vop. por. met. 1 prochn. mat. no.7:  
7-17 '59. (MIRA 14:2)  
(Titanium carbide) (Powder metallurgy)

8/073/62/028/004/002/004  
1017/1217

AUTHORS: Yeremenko , B.N. and Lukashenko, G.M.

TITLE: Thermodynamic properties of liquid solutions in the system: Mg-Al

PERIODICAL: Ukrainskiy khimicheskiy zhurnal, v.28, no.4, 1962, 462-466

TEXT: The emf and thermodynamic properties of the system  $Mg/KCl - LiCl + 1\% MgCl_2$  (Mg + Al) were investigated. Solid Mg was used as the reference electrode. Measurements were carried out in a argon atmosphere. The electromotive force was measured for each composition at 6-12 different temperatures, between the "liquidus" and 650°C. The Mg-Al system shows very small deviations from the ideal. The highest value of  $\Delta F$  is - 140 cal/mole. The heat of mixing is negative and its highest value is - 400 cal/mole for a composition displaced toward aluminium. The entropies of mixing of liquid Mg and Al are close to the ideal values. There are 6 figures and 1 table.

Card 1/2

S/073/62/028/004/002/004  
I017/I217

Thermodynamic properties of...

ASSOCIATION: Institut metallokeramiki i spetsial'nykh splavov AN  
USSR (Institute of Powder Metallurgy and Special  
Alloys Ukr SSR)

SUBMITTED: March 4, 1961

Card 2/2



YEREMENKO, B.P., inzhener; LUK'YANCHENKO, P.Z.

Experience in making hollow curbing. Avt. dor. 19 no.10:  
31-32 0 '56.

(MIRA 9:12)

(Road construction)

KRIVOKOBYL'SKIY, V.F.; YEREMENKO, B.S.

The SMD standardized diesel engine. Biul.tekh.-ekon.inform.  
no.11:58-59 ' 58. (MIRA 11:12)  
(Diesel engines)

KOVAL', I.A.; VAKHTEL', V.Yu.; YEREMENKO, B.S.; CHICHEVA, L.I., red.;  
SOKOLOVA, N.H., tekhn. red.

[Standardized diesel engine for tractors and combines] Unifi-  
tsirovannyi dizel' dlia traktorov i kombainov. Moskva, Sel'-  
khozizdat, 1962. 222 p. (MIRA 16:2)

(Tractors--Engines)

(Combines (Agricultural machinery))--Engines)

KOVAL', I.A.; YEREMENKO, B.S.; DIDENKO, A.M.

The standard SMD-14 diesel. Trakt. i sel'khozmasb. 32 no.7:1-4 JI '62.  
(MIRA 15:7)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro po dvigatelyam.  
(Tractors) (Diesel engines)

KASHUBA, B.P.; KOVAL', I.A.; VAKHTEL', V.Yu.; DONDE, V.N.;  
YEREMENKO, B.S.; ZELIKOVSKIY, L.M.; KARMAZIN, E.I.;  
LINCHEVSKIY, V.V.; OGIY, G.Ye.; SEPITYI, V.T.;  
PESTRYAKOV, A.I., red.

[The T-74 tractor; its design, operation and maintenance]  
Traktor T-74; konstruktsiia, ekspluatatsiia, ukhod. Mo-  
skva, Kolos, 1964. 204 p. (MIRA 18:4)

ACC NR: AM6036737

(A)

Monograph

UR/

Koval', Ivan Andreyevich; Vakhtel', Viktor Yul'yevich; Yeremenko, Boris Stepanovich; Didenko, Aleksandr Markovich

Investigation and development of diesel engines (Issledovaniye i doved-ka dizeley) Moscow, Izd-vo "Mashinostroyeniye", 66. 167 p. illus., biblio. 2,000 copies printed.

TOPIC TAGS: diesel engine, diesel engine design, power plant, mechanical engineering/ SMD-14 diesel

PURPOSE AND COVERAGE: This book is intended for engineering and technical personnel engaged in the design, testing, and operation of diesel engines. The experience of the design staff in developing and modifying the most popular Soviet diesel engine, the SMD-14, is presented. The operation of the diesel engine, and the resulting loads, stresses, and vibrations in it and its components, are analysed, particularly from the viewpoint of durability. Common defects found in diesel engines and methods of eliminating them are treated in detail. Prospects for increasing the power and economy of diesel engines are examined. There are 23 references, 21 of which are Soviet.

WDC: NONE

Card 1/2

ACC NR: AM6036737

TABLE OF CONTENTS.[abridged]:

Introduction -- 3  
Studying the operation and increasing the economy of the SMD-14 diesel engine -- 7  
Studying the individual components, gears, and systems of the diesel engine -- 36  
Vibrations in the tractor diesel engine -- 110  
Durability of the main couplings of the SMD-14 diesel engine -- 127  
Developing a family of diesel engines on the basis of the SMD-14 engine -- 143  
References -- 165

SUB CODE: 21/ SUBM DATE: 19Feb66/ ORIG REF: 021/ OTH REF: 002

Card 2/2

BARAN, A.A. [Baran, O.O.]; VEREMENKO, B.V. [I Ere menko, B.V.];  
LITVINOV, R.O. [Litvinov, R.O.]

Distribution of adsorbed impurities on the surface of silicon  
p - n-junctions. Ukr. fiz. zhur. 10 no.1:111-113 Ja '65. (MIRA 18:4)

1. Institut poluprovodnikov AN UkrSSR, Kiyev.



BARAN, A.A.; STRAZHESKO, D.N.; GLAZMAN, Yu.M.; YEREMENKO, B.V.

Density of the surface coating of a disperse phase of lyophobic sols  
by potential-determining ions. Dokl. AN SSSR 163 no.1:125-128 J1 '65.

(MIRA 18:7)

1. Institut fizicheskoy khimii im. L.V.Pisarzhevskogo AN UkrSSR i  
Kiyevskiy tekhnologicheskoy institut legkoy promyshlennosti. Sub-  
mitted December 25, 1964.

NEKRASOV, Z.I., doktor tekhn.nauk; GLADKOV, N.A., inzh.; YEREMENKO, D.P., inzh.

Equipment for the determination of the softening temperature of  
blast furnace materials. Trudy Inst. chern. met. AN URSR 12:163-  
168 '60. (MIRA 14:5)

(Blast furnaces--Equipment and supplies)  
(Thermocouples)

YEREMENKO, F., polkovnik

March and frontal encounter of armored divisions of the  
United States. Voen. vest. 40 no. 3:119-122 Mr '61.

(MIRA 14:2)

(Tank warfare)

1 1984-65 ENT(1)/ENT(m)/T/ENT(t)/ENT(b)/ENA(h) Pz-b/Teb IUP(c) JD/AT  
 2 1984-65 ENT(1)/ENT(m)/T/ENT(t)/ENT(b)/ENA(h) Pz-b/Teb IUP(c) JD/AT

ARTHEM: PAVAN, G. D.; Yermenko, I. V., Lytvynov, R. O.

1. The first part of the document is a list of names and titles, including "The Hon. Mr. Justice" and "The Hon. Mr. Justice".

SOURCE: Ukrains'kyi s'pyts'nyy zhurnal, v. 10, no. 1, 1965, 111-112

Figure 1. Schematic diagram of the experimental setup. The subject is seated in a chair and views the screen through a mirror. The screen displays the target (a red dot) and the starting position (a green dot). The subject's hand is positioned at the starting position. The distance between the starting position and the target is 10 cm. The subject is instructed to move the hand from the starting position to the target. The distance between the starting position and the target is 10 cm. The subject is instructed to move the hand from the starting position to the target. The distance between the starting position and the target is 10 cm.

1. The first part of the document is a title page. It contains the title "THE HISTORY OF THE CITY OF BOSTON" and the author "BY SAMUEL JOHNSON".

the calcium concentration in the water was  $100 \pm 10$  mg/l. The average

Autoradiograms have shown that the distribution of the impurity on the silica was very inhomogeneous, both when water and the etchant were used. Washing in pure

Card 2/2



YEREMENKO, F.I.

Ink for kymographic registration. Fiziol.zhur.40 no.1:104-105  
Ja-F '54. (MLRA 7:2)

1. TSentral'nyy institut kurortologii Ministerstva zdravookhra-  
neniya SSSR, Moscow.  
(Ink) (Medical instruments and apparatus)

YEREMENKO, F.I.

Use of an impulse current of rectangular form in physical therapy.  
Report No.1: Method to determining optimal dosage of impulse current  
in electrogymnastics. Vop.kur., fizioter. i lech.fiz.kul't. no.4:  
17-21 0-D '55. (MIRA 12:12)

1. Iz bal'neo-fizioterapevticheskogo otdelniya (sav. - prof. Kh.M.  
Freydin) Tsentral'nogo instituta kurortologii (dir. - kand.med.nauk  
G.N. Pospelova).

(ELECTROTHERPY,

rhythmic electrical stimulation of musc., determ.  
of optimal dosage of current)

YEREMENKO, F. I.

YEREMENKO, F. I.: "Changes in the physiological lability of the neuromuscular apparatus of patients with polyneuritis and arachnomyelitis under the influence of certain spa and physiotherapeutic factors (mud, hydrogen-sulfide baths, and impulse current).) Min Health USSR. Central Inst for Spa Studies. Moscow, 1956. (DISSERTATION For the Degree of Candidate in Medical Science.)

So: Knizhnaya Letopis', No. 18, 1956



*YEREMENKO, F.I.*

ABRIKOSOV, Ivan Alekseyevich, prof., [deceased], YASHOORODSKIY, Viktor Georgiyevich, kand. meditsinskikh nauk,; YEREMENKO, F.I., red.;  
KHAKHIN, M.T., tekhn. nauk

[Technology in the service of medicine; new medical instruments and methods] Tekhnika na sluzhbu meditsiny; novye meditsinskie pribory i metody. Moskva, Gos. izd-vo med. lit-ry, 1958. 95 p.  
(MIRA 11:11)

(MEDICAL INSTRUMENTS AND APPARATUS)

YEREMENKO, F.I., kand.med.nauk

Mud therapy in lumbosacral radiculitis. Med.sestra 18 no.9:  
35-39 8 '59. (MIRA 12:11)

1. Gosudarstvennyy institut kurortologii i fizioterapii, Moskva.  
(NERVES, SPINAL--DISEASES)  
(BATHS, MOOR AND MUD)

AKULOVA, R.F.; YEREMENKO, F.I.

Examination of the physiological lability of the neuromuscular  
apparatus of lower extremities in chronic arterial insufficiency.  
Sov. med. 28 no.4:80-85 Ap '64.

(MIRA 17:12)

1. Tsentral'nyy institut kurortologii i fizioterapii (direktor -  
kand. med. nauk G.N. Pospelova) Ministerstva zdravookhraneniya  
SSSR, Moskva.

YEREMENKO, G.S.; YEREMENKO, F.I.

Lability of the neuromuscular apparatus in infectious nonspecific polyarthrititis and its changes following treatment with tetracycline and medicinal mud. Sov. med. 28 no.9:38-45 S '65. (MIRA 18:9)

1. Terapevticheskoye (zav. - prof. N.I.Speranskiy) i bal'neoterapevticheskoye (zav. - prof. Kh.M.Freydlin) otdeleniya Tsentral'nogo instituta kurortologii i fizioterapii (dir. - kand. med. nauk G.N. Pospelova) Ministerstva zdravookhraneniya SSSR, Moskva.

YEREMENKO, F. I.

Tobacco Manufacture and Trade

Converting tobacco factories to a year-round schedule of vacations is possible. Tabak 13 no. 1, 1952

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

1. YEREMENKO, F. M.
2. USSR (600)
4. Tobacco Industry
7. Necessity for standardizing tobacco factory equipment. Tabak 13 no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

DIKHER, G.L., YEREMENKO, F.M., LEONCHIK, B.I., spets.red.; VASIL'YEVA, G.N.,  
red.; YAROV, E.M., tekhn.red.

[Feeding tobacco into cigarette machines by pneumatic means]  
Pnevmaticheskoe pitanie tabakom sigaretnykh mashin. Moskva, Pishche-  
promizdat, 1956. 38 p.  
(Cigarette industry--Equipment and supplies)  
(MIRA 11:9)

LEONCHIK, B.I., kand.tekhn.nauk; YEREMENKO, F.M., inzh.

Concerning the use of the pressure drop in the measuring  
hoppers of pneumatic and hydraulic transportation systems.  
Izv. vys. ucheb. zav.; energ. 5 no.2:106-107 F '62.

(MIRA 15:3)

1. Moskovskiy ordena Lenina energeticheskiy institut.  
(Hydraulic conveying) (Pneumatic-tube transportation)



VAL'TER, A.A.; YEREMENKO, G.K. [Ieremenko, H.K.]

Mineralogy of nepheline rocks in the southern part of the Ukrainian  
Crystalline Shield. Mat.z min.Ukr. no.2:153-157 '61. (MIRA 15:8)

(Dnieper Valley--Nephelite)

YEREMENKO, G.K.; VAL'TER, A.A.; KLIMENCHUK, V.I.

Distribution of gallium in alkali rocks as revealed by the study  
in the region of the Sea of Azov. Geokhimiia no.2:132-136 F '63.  
(MIRA 16:9)

1. Institute of Mineral Resources, Academy of Sciences, Ukrainian  
S.S.R., Simferopol.

YEREMENKO, G.K.; VAL'TER, A.A.

Accessory tainiolite from alkali metasomatites from the region  
of the Sea of Azov. Zap. Vses. min. ob-va 92 no.5:599-601 '63.  
(MIRA 17:1)

1. Institut mineral'nykh resursov AN UkrSSR, Simferopol'.

VAL'TER, A.A.; YEREMENKO, G.K.; STREMOVSKIY, A.M.

Calcium rinkite from Ukrainian alkaline rocks. Dokl. AN SSSR  
150 no.3:639-641 My '63. (MIRA 16:6)

1. Institut mineral'nykh resursov AN UkrSSR. Predstavleno  
akademikom D.I. Shcherbakovym.  
(Ukraine--Rinkite)

DAVIDICH, S.I.; YEREMENKO, G.K.

Method of working with a Leric solution of increased specific weight. Razved. i okh. nedr 30 no.9:47-49 S '64. (MIRA 17:12)

1. Simferopol'skiy institut mineral'nykh resursov.

VAL'TER, A.A.; YEREMENKO, G.K.

Magnetometric study of the state of cerium in britholite. Zap.  
Vses, min. ob-va 93 no.1:64-68 '64 (MIRA 18:2)

1. Institut mineral'nykh resursov AN UkrSSR, Simferopol'.

VAL'TER, A.A.; YEREMENKO, G.K. [IER'omenko, H.K.]

Magnetic susceptibility of calcite and some other carbonates. Geol.  
zhur. 24 no.1:58-62 '64. (MIRA 18:7)

1. Institut mineral'nykh resursov AN UkrSSR.

VAL'TER, A.A.; YEREMENKO, G.K. [Ier'omenko, H.K.]

Disordered potassium feldspar from the Pokrovo-Kirovovo alkaline  
massif. Dop. AN URSS no.1:100-104 '65. (MIRA 18:2)

1. Institut mineral'nykh resursov Gosudarstvennogo geologicheskogo  
komiteta SSSR. Predstavleno akademikom AN UkrSSR N.P. Semenenko  
[Semenenko, M.P.].



YEREMENKO, G.S.

Present state of the sanatoria and health resort system in the  
U.S.S.R. and future tasks of its improvement. Vop.kur.fizioter.  
i lech.fiz.kul't. no.1:6-16 Ja-Mr '55. (MLRA 8:8)

1. Nachal'nik Glavnogo upravleniya kurortov i sanatoriyev  
Ministerstva zdravookhraneniya SSSR  
(HEALTH RESORTS,  
in Russia)

**YEREMENKO, G. S.**

USSR/Medicine - Health service

FD - 1924

Card 1/1      Pub 102-5/12

Author : Yeremenko, G. S. and Epshteyn-Kolontay, Yu. M. (Simferopol')

Title : Results of improving quality of medical service to population

Periodical : Sov. zdrav., 1, 25-29, Jan-Feb 1955

Abstract : The merger of hospitals with outpatient clinics, effected in 1950, and adherence to medical district principle, produced a streamlined system of health service for the population of the city of Simferopol' and provided an opportunity for medical district physicians to improve their qualifications. It was found, however, that the work load of physicians assigned to outpatient clinics and visitation work in the homes of patients was much greater than the work load of physicians on duty in hospitals. A new work schedule was drawn up whereby a few physicians were detached from duty in hospitals and assigned to outpatient clinics. Conditions in outpatient clinics were thereby alleviated and expansion of preventive measures was made possible.

Institution: - -

Submitted : May 29, 1954

YEREMENKO, G.S.

Reorganization of the sanatorium and health resort system. Vop.kur.  
fizioter. i lech.fiz.kul't. 21 no.3:9-17 J1-S '56. (MLRA 9:10)

1. Zamestitel' ministra zdavookhraneniya RSFSR.  
(HEALTH RESORTS, WATERING PLACES, ETC.)

*YEREMENKO, G.S.*

YEREMENKO, G.S.; NEVRAYEV, G.A.

Basic problems in the improvement of the treatment and services for  
outpatients in health resorts and new tasks for health resort out-  
patient clinics. Vop.kur., fizioter. i lezh.fiz.kul't. 22 no.2:  
3-9 Mr-Apr '57. (MIRA 11:1)

(HEALTH RESORTS, WATERING PLACES, ETC.)

YEREMENKO, G.S.

Comparative data on the effectiveness of the treatment of infectious arthritis with a combination of antibiotics of the tetracycline group with therapeutic mud and therapeutic mud only, based on diphenylamine reaction data. Nauch.trudy Riaz.med.inst. 18 no.2:362-376 '64. (MIRA 19:1)

1. Iz TSentral'nogo instituta kurortologii i fizioterapii Ministerstva zdravookhraneniya SSSR (dir. - kand.med.nauk G.N.Pospelova).

YEREMENKO, G.S.; YEREMENKO, F.I.

Lability of the neuromuscular apparatus in infectious nonspecific polyarthrititis and its changes following treatment with tetracycline and medicinal mud. Sov. med. 28 no.9:38-45 S '65. (MIRA 18:9)

1. Terapevticheskoye (zav. - prof. N.I.Speranskiy) i bal'neoterapevticheskoye (zav. - prof. Kh.M.Freydlin) otdeleniya Tsentral'nogo instituta kurortologii i fizioterapii (dir. - kand. med. nauk G.N. Pospelova) Ministerstva zdravookhraneniya SSSR, Moskva.

YEREMENKO, G.V., inzh. (Tashkent)

System of pumping water from wells in well drainage in Fergana  
Province. Gidr. 1 mel. 16 no.2:19-25 F '64. (MIRA 17:3)

YENGULATOV, I.A., kand. tekhn. nauk (Tashkent); YEREMENKO, G.V., inzh.  
(Tashkent); USMANOV, A., inzh. (Tashkent)

Planned or "critical" depth of ground waters. Gidr. i mel. 16  
no.7:21-30 J1 '64. (MIRA 17:11)



YEREMENKO, I.

Let the schools have progressive methods of teaching. Prof.-  
tekh. obr. 18 no.7:14-15 J1 '61. (MIRA 14:7)

1. Nachal'nik Irkutskogo oblastnogo upravleniya professional'no-  
tekhnicheskogo obrazovaniya,  
(Irkutsk Province—Vocational education)

L 10685-66

ACC NR: AP5025312

SOURCE CODE: UR/0193/65/000/009/0027/0028

AUTHOR: Yeremenko, I. F.; Kurman, A. V.

ORG: None

TITLE: A modification of the group operation of reference to the accumulator on punched tape in the "Ural-2" computer

SOURCE: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 9, 1965, 27-28

TOPIC TAGS: punched paper tape, computer programming, computer technology, *COMPUTER CIRCUIT*

ABSTRACT: A system has been developed in the computing department of the Scientific Research Institute of Mining, Krivoy Rog (Nauchno-issledovatel'skiy gornorudnyy institut) for executing group operation Lp on the "Ural-2" computer, together with an algorithm in which group operation Lp is terminated by a symbol indicating the end of the block of numbers in the zone. This symbol is punched into the tape simultaneously with the input data. The number of symbols in a zone is automatically counted on a cyclic counter during data input. A diagram of the circuit for carrying out the altered system for group operation is given (Fig. 1). Use of the former algorithm for executing group operation Lp is not prevented by the alterations

Card

1/3

UDC:681.177.5.004.1

35  
B

L 10685-66

ACC NR: AP5025312

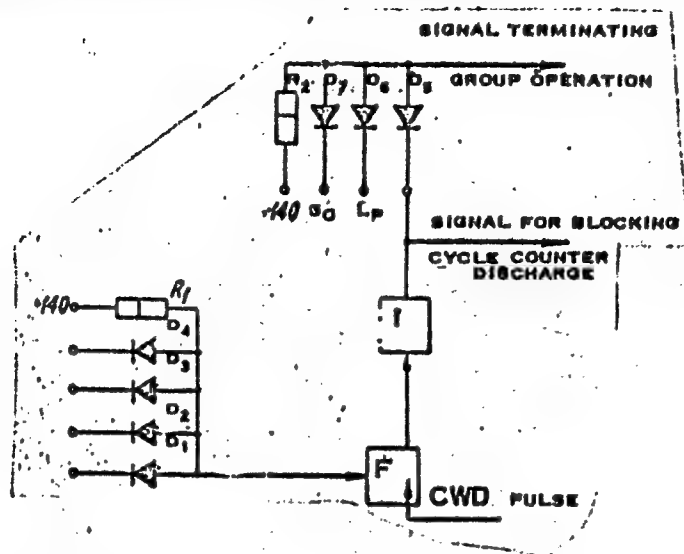


Fig. 1. Diagram of circuit for carrying out altered system for group operation.

Card 2/3

ACC NR: AP5025312

made in the computer circuit. A year's experience shows the system to be stable and effective in raising the productivity of both the computer and the programmers.  
Orig. art. has: 2 figures,

SUB CODE: 09/ SUBM DATE: None

HW  
Card 3/3

CHIZHIKOV, D.M. (Moskva); GEL'YANITSKAYA, Z.F. (Moskva); YEREMENKO, I.Y.  
(Moskva)

Interaction between copper and iron sulfides and fused iron-  
calcium silicates. Izv. AN SSSR Met. i gor. delo no.2:41-44  
Mr-Ap'64 (MIRA 17:8)

L 17003-66 EWT(1)/EWA(h) SCTB DD

ACC NR: AT6003893

SOURCE CODE: UR/2865/65/004/000/0573/0580

AUTHOR: Maystrakh, Ye. V.; Il'yutkin, G. N.; Konstantinov, V. A.; Yeremenko, I. V.;  
Krasil'nikov, S. A.; Lysenko, O. Yu.; Matsatsa, V. F.; Privezentsev, V. I.

ORG: none

TITLE: Automatic apparatus to create reversible and controllable hypothermia for possible use in space flight

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 573-580

TOPIC TAGS: cybernetics, hypothermia, space physiology, physiologic parameter, space flight

ABSTRACT: The authors designed and tested an apparatus consisting mainly of a set of sensors of physiological functions and a logical device to process the readings of the sensors and to issue the appropriate commands for heating or cooling should the established parameters (e. g., rectal temperature, skin temperature, depth of respiration, arterial pressure, motor activity) be exceeded. The apparatus functioned very efficiently in experiments on 16 dogs with a body temperature of 22-

Card 1/2

L 17003-66  
ACC NR: AT6003893

-25°C. The apparatus cooled the body to the prescribed level, maintained the desired level of hypothermia and state of anesthesia for up to 24 hours, and restored normal body temperature. The authors recommend a continuation of research with a view to perfecting the sensing elements, increasing the amount of information to be processed (brain and heart biopotentials), and providing the logical and control system with means of self-instruction and self-organization. Orig. art. has: 2 figures, 1 table.

SUB CODE: 06/

SUBM DATE: 00/

ORIG REF: 000/

OTH REF: 000

Card 2/2 7195

L 14347-63 EWT(d)/EWT(1)/FS(v)/T-2/ES(a)/ES(b)/ES(c)/ES(k)/BDS

AFFTC/ASD/AFMDC/APGC Pb-4, A/DD

ACCESSION NR: AP3003865

3/0020/6, 5/003/0714/071776

AUTHORS: Mayatrakh, Ye. V.; Yermenko, I. V.; Il'yutkin, G. I.; Konstantinov, V. A. 70

160  
TITLE: Cybernetic regulation of the process of reversible hypothermia 2

SOURCE: AN SSSR. Doklady\*, v. 151, no. 3, 1963, 714-717

TOPIC TAGS: cybernetic regulation, reversible hypothermia, hypothermia

ABSTRACT: An automatic device for subjecting the anesthetized organism to profound and reversible hypothermia is described. Special sensors record the various physiological parameters measures (rectal and skin temperature, respiration, arterial pressure, motor activity) and convert them into electrical impulses. Delivery of a signal (1) means that a given parameter is not within the optimal range; absence of a signal (0), that it is. Various combinations of (1) and (0) indicate whether the status of the anesthetized organism is satisfactory or requires external warming or further cooling. The design of the machine and methods for programming and regulating the temperature and the supply of the gaseous mixture are illustrated in diagrams and formulae. The apparatus has functioned successfully and safely in 46 experiments on hypothermia in dogs. It is planned to add

Card 1/2



L 14347-63

ACCESSION NR: AP3003865

bioelectric signals of brain and heart activity and a logical control system for self-instruction and self-regulation. "The construction, assembling, and adjustment of the first variant of the automatic device was done by V. I. Privezentsev and V. I. Pashinov; in the case of the second variant, by S. A. Krasil'nikov, O. Yu. Lysenko, and V. F. Matsats." Orig. art. has: 3 tables, 3 figures, 2 formulae.

ASSOCIATION: Institut fiziologii im. I. P. Pavlova AN SSSR (Institute of Physiology, AN SSSR)

SUBMITTED: 00

DATE ACQ: 15Aug63

ENCL: 00

SUB CODE: AS, P

NO REF SOV: 000

OTHER: 000

Card 2/2

ACCESSION NR. AF5014719

IR 9000 65 900 00 422 129

AUTHOR: Yaremko, I.V.; Smirnov, V.B.

TITLE: In general, analyze memories with circular information recording

L 41581-05

ACCESSION NR: AT5014719

only approximately  $2 \cdot 10^{-3}$  mW to do the same job. On the other hand, as a result of a reduction from 1 to 0.01 mm<sup>2</sup> in the area needed for the registration of the signal.

ASSOC. AID EX: none

SUBMITTED: 20Jan65

ENCL: 00

SUB CODE: DP

NO REF SOV: 000

OTHER: 000

Card 2/2 *AAF*

L 61639-65 EWT(d)/EED-2/EP(1) Pq-4/Pg-4/Pk-4 LJP(c) BB/GG/OS  
ACCESSION NR: AT5014720 UR/0000/65/000/000/0130/0134

AUTHOR: Yeremenko, I. V.; Panfilov, I. V.; Sverdlik, A. N.

TITLE: Some possible designs of memories with unipolar signal recording and reading

SOURCE: Operativnyye i postoyannyye zapominayushchiye ustroystva (Rapid and nonvolatile storage), sbornik statey, Leningrad, Izd-vo Energiya, 1965, 130-134

TOPIC TAGS: unipolar signal recording; recording head; battery; semiconductor

ABSTRACT: The introduction of unipolar recording has made it possible to